

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : WO 00/63698
G01N 33/573 A1 (11) International Publication Number:
(43) International Publication Date: 26 October 2000 (26.10.00)

(21) International Application Number: PCT/FI00/00337

(22) International Filing Date: 19 April 2000 (19.04.00)

(30) Priority Data: 990888 20 April 1999 (20.04.99) FI

(71) Applicant (for all designated States except US): OY MEDIX BIOCHEMICA AB [FI/FI]; Asematie 13, FIN-02700 Kau-nainen (FI).

(72) Inventors; and
(75) Inventors/Applicants (*for US only*): MAISI, Päivi [FI/FI]; Maisinkuja 41, FIN-01940 Palojoki (FI). SEPPER, Ruth [EE/EE]; Eha 22, Kelvingi, 74001 Viimsi (EE). PRIKK, Kaiu [EE/EE]; Peetrikuja 86/1, 2400 Tartu (EE). RAULO, Saara [FI/FI]; Maurinkatu 16 A 10, FIN-00170 Helsinki (FI). TIKANOJA, Sari [FI/FI]; Väinämöisenkatu 29 B 24, FIN-00100 Helsinki (FI). SORSA, Timo [FI/FI]; Lounaisväylä 17, FIN-00200 Helsinki (FI).

(74) Agent: BORENIUS & CO OY AB; Kansakoulukuja 3,
FIN-00100 Helsinki (FI).

(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: METHODS AND TEST KITS FOR EVALUATING THE PRESENCE AND SEVERITY OF RESPIRATORY TRACT INFLAMMATION

(57) Abstract

The present invention is related to diagnostic methods and test kits for physicians and veterinarians to enable an easy and rapid diagnosis of the level and severity of respiratory tract inflammation without elaborate laboratory facilities and qualified laboratory personnel. The method and test kits are based on a unbiased evaluation of the amount matrix metalloproteinases (MMPs) and/or related molecules (MMP-RMs) in respiratory secretion samples. An increased amount of MMPs in respiratory fluid as compared with the amount found in healthy persons is a reliable indication of the level, severity and/or tissue destructive active phase(s) of inflammation in respiratory tracts and also enables targeting of medical treatment as well as prediction of the risks for complication in connection with infections, inflammation as well as environmental and physical stress in racing businesses, wherein i participate in a race or not.

MMP-9 SPUTUM/ASTHMA

